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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/587,425	11/05/2007	11/05/2007 Samantha Jones 360		8016
	7590	EXAMINER		
ONE LANDMA	ARK SQUARE, 10TH	LIN, KUANG Y		
STAMFORD, (.1 00901		ART UNIT	PAPER NUMBER
			1793	
			MAIL DATE	DELIVERY MODE
			12/12/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Commence		Applica	Application No.		Applicant(s)			
		10/587,	425	JONES, SAMAN	JONES, SAMANTHA			
Office Action Summary			er	Art Unit				
		Kuang Y		1793				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
WHIC - Exter after - If NC - Failu Any r	ORTENED STATUTORY PERIOD FOR CHEVER IS LONGER, FROM THE MAIL asions of time may be available under the provisions of 3 SIX (6) MONTHS from the mailing date of this community period for reply is specified above, the maximum statute re to reply within the set or extended period for reply will eply received by the Office later than three months after ad patent term adjustment. See 37 CFR 1.704(b).	LING DATE OF 7 87 CFR 1.136(a). In no cation. by period will apply and by statute, cause the a	FHIS COMMUNICATION COMMUNICATI	ON. timely filed om the mailing date of this NED (35 U.S.C. § 133).				
Status								
2a)⊠	Responsive to communication(s) filed of This action is FINAL . 2b) Since this application is in condition for closed in accordance with the practice	☐ This action is allowance excep	non-final. ot for formal matters, p		e merits is			
Dispositi	on of Claims							
5)□ 6)⊠ 7)□ 8)□ Applicati 9)□ 10)□	Claim(s) 1-15 is/are pending in the app 4a) Of the above claim(s) is/are Claim(s) is/are allowed. Claim(s) 1-15 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction on Papers The specification is objected to by the E The drawing(s) filed on is/are: a Applicant may not request that any objection Replacement drawing sheet(s) including the	withdrawn from one and/or election Examiner.) accepted or leading (sign to the drawing (sign) eccurrection is required.	requirement. a) objected to by the be held in abeyance. So the diffusion of the drawing(s) is considered if the drawing(s).	See 37 CFR 1.85(a). objected to. See 37 C	• •			
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.								
2) Notic 3) Inform	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date <u>7/26/08</u> .	-948)	4) Interview Summa Paper No(s)/Mail 5) Notice of Informa 6) Other:	Date				

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1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1, 3, 6 and 13-15 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by US 3,894,572 to Moore, Jr. (see for example, col. 2, lines 29-37 and col. 11, line 45 through col. 12, line 18).
- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 2, 4, 5 and 7-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over US 3,894,572 to Moore, Jr.

With respect to claims 2 and 4, it is conventional to apply a seal coat in the investment shell mold (see, for example, US 4,204,872 to Hayati et al.) and to use a rainfall sander for depositing refractory particles onto the slurry coating layer (see, for example, US 4,223,716 to Ostrowski). With respect to claims 5, 7, 9, and 10, it would have been obvious to obtain the optimal coating material and the process parameters through routine experimentation. With respect to claims 8, 11 and 12, Moore does disclose to mix or coat the refractory particles with gelling agent (see col. 22, line 46 through col. 12, line 18). Thus, to combine the mixing and coating step is deemed to be nothing more than an obvious matter of design choice.

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5. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

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A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

6. Claims 1-15 are provisionally rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1-20 of copending Application No. 10/523,855 in view of either US 3,894,572 to Moore, Jr.

The claimed invention of the copending application substantially shows the invention as claimed except the pre-mixing step. However, Moore and GB '161 show that feature to be conventional. It would have been obvious to pre-mix the refractory particles with the gelling agent prior to applying the same onto the slurry coating in view of the conventional practice.

This is a <u>provisional</u> obviousness-type double patenting rejection.

7. Applicant's arguments filed November 20, 2008 have been fully considered but they are not persuasive.

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Applicant's main argument is that the patent to Moore does not disclose gelforming material absorbs moisture after contact with the coating layer. However,
in col. 11, lines 59-68 of the patent, it states that solid setting agent is mixed with
the refractory grain and the mixture is employed as stucco. The solid setting
agent possesses certain degree of moisture absorption property though the
degree of the absorption may be different from that of the instant gel-forming
material.

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8. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kuang Y. Lin whose telephone number is 571-272-1179. The examiner can normally be reached on Monday-Friday, 10:00-6:30,.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jessica L. Ward can be reached on 571-272-1223. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Kuang Y. Lin/ Primary Examiner, Art Unit 1793

12-8-08